

# The Deltagram

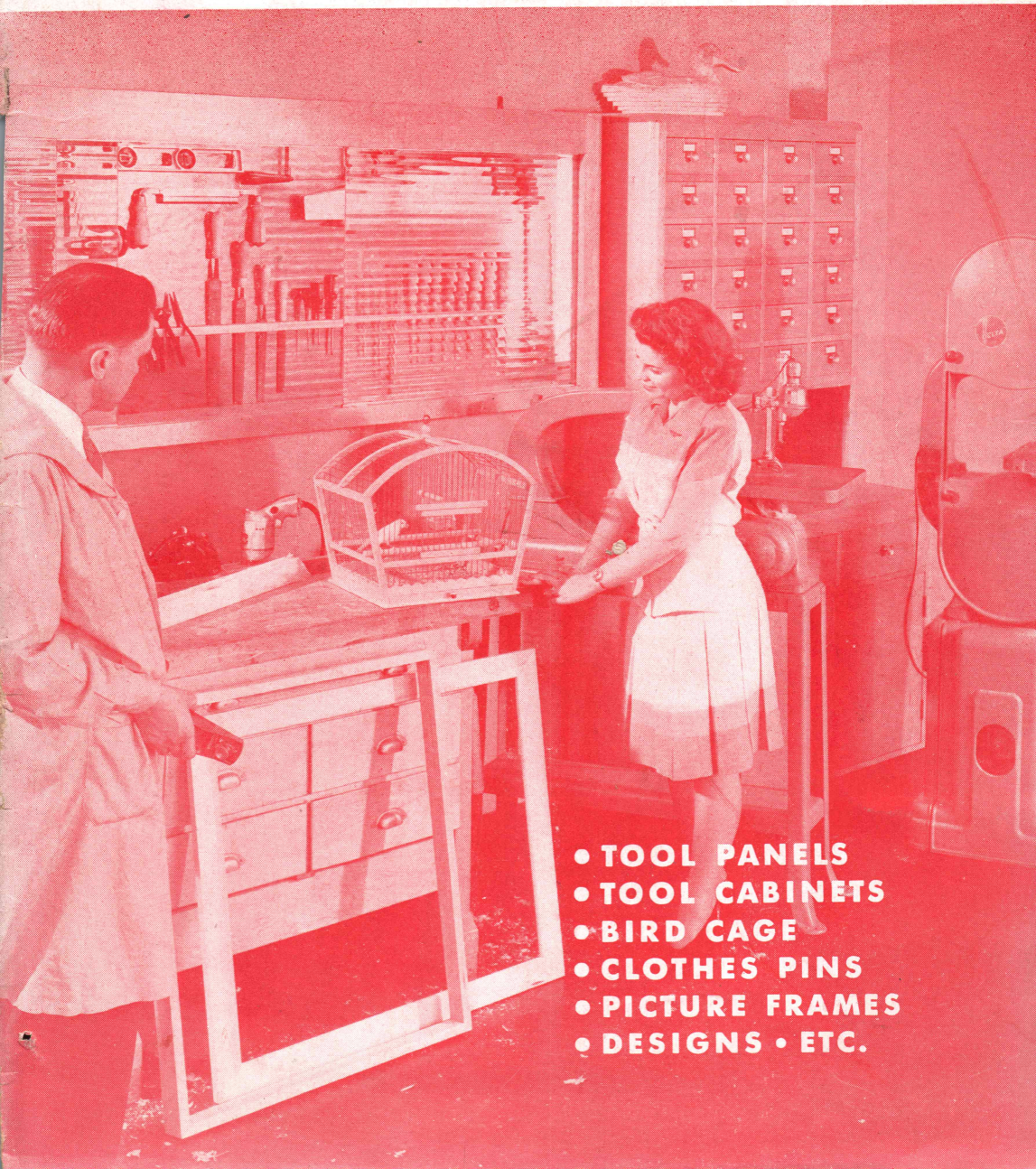
TRADE MARK REG. U. S. PAT. OFF.

10¢

VOL. 15, No. 1

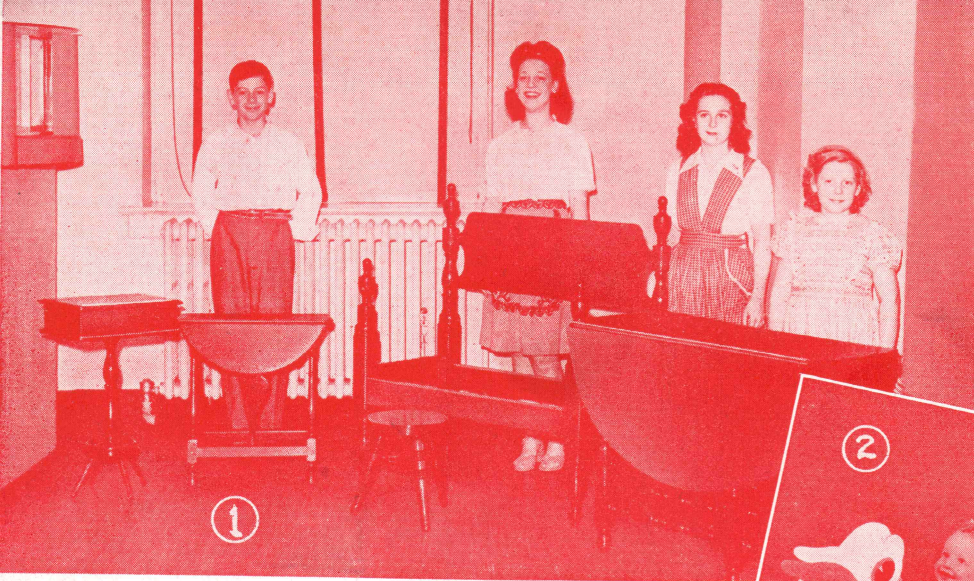
SEPTEMBER 1, 1945

TEN CENTS



- TOOL PANELS
- TOOL CABINETS
- BIRD CAGE
- CLOTHES PINS
- PICTURE FRAMES
- DESIGNS • ETC.





## WITH DELTA CRAFTERS

The HEIRLOOMS shown in photo No. 1 were made by Ardell Thompson of St. Louis for his children. These pieces were made from walnut wood retrieved from the old St. Louis water front buildings.



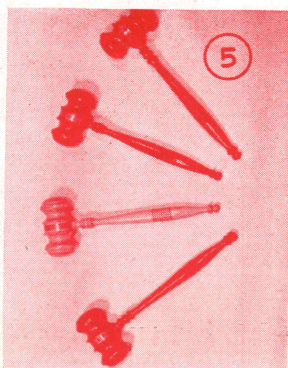
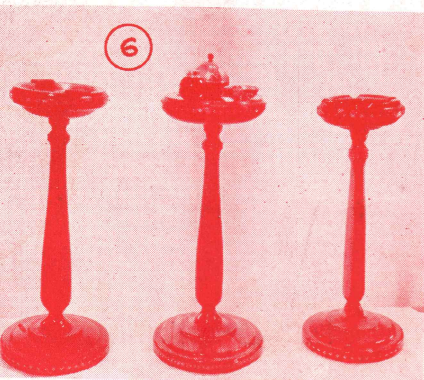
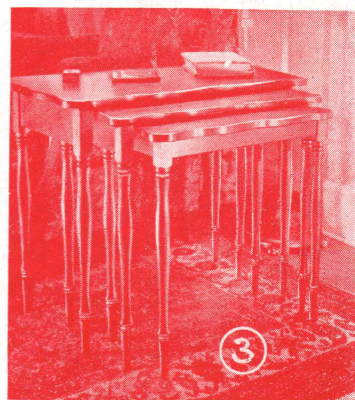
Mary Anne is really enjoying the duck rocker her uncle, Mr. E. C. Hodges of San Antonio, made for her from plans which appeared in the January-February issue of the Deltagram.



The mahogany nest of tables in photo No. 3 are from the workshop of J. Robert Moore of Bridgeport, Connecticut. To give the tables a more symmetrical and dainty effect, Mr. Moore turned the legs of the smallest table a little smaller in diameter than the other two.



The inlaid projects in photos No. 4, 5, and 6 were made by C. T. Garrison of Lufkin, Texas. Inlays in turnings dress up the projects quite a bit, as shown by these pictures.





# The Deltagram

TRADE MARK REG. U. S. PAT. OFF.

★ A MAGAZINE FOR CRAFTSMEN

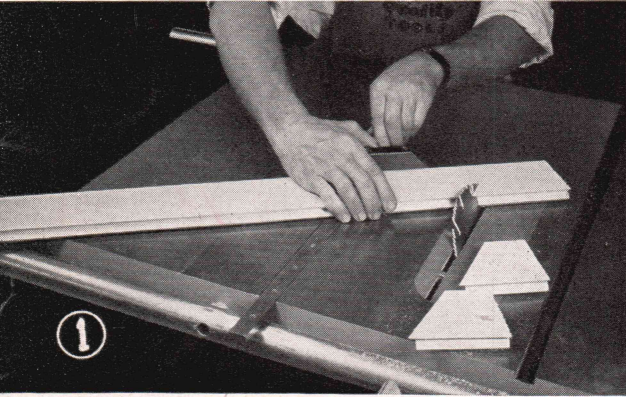
★ PUBLISHED BY THE DELTA MANUFACTURING COMPANY, MILWAUKEE, WISC. SOLD ONLY BY SUBSCRIPTION - 50¢ THE YEAR.

★ E. G. HAMILTON - MANAGING EDITOR  
A. M. WARKASKE - TECH. EDITOR

OL. 15, No. 1

SEPTEMBER-OCTOBER, 1945

TEN CENTS



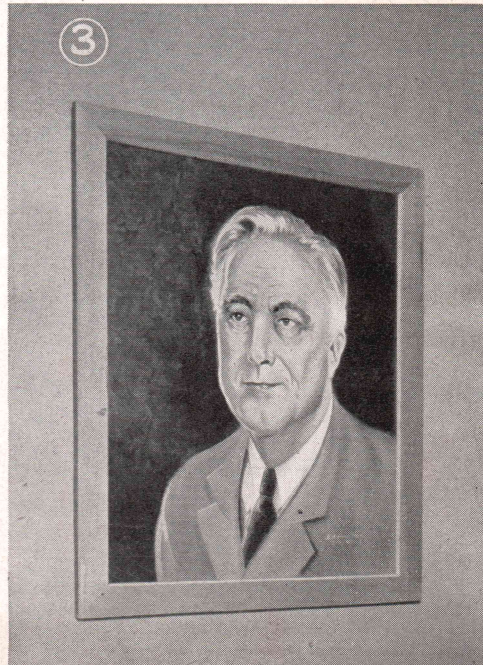
## PICTURE FRAMES

☆ THE three picture frames shown in photographs 2, 3 and 4 are very simply made from flat  $\frac{3}{4}$ " stock, by simply employing varying methods of mitering.

Frame No. 3 is  $\frac{3}{4}$ " by  $2\frac{1}{4}$ " flat stock, with a simple  $45^\circ$  miter at the corner.

Frame No. 4 is the same size stock, except that the miter is cut with the sides on edge. The rabbet for the glass and picture is cut somewhat deeper than No. 3 to receive the  $\frac{1}{4}$ " plywood mask which goes around the picture.

Frame No. 2 is a little more complicated to build, due to the fact that it is a compound miter. The compound miter is made by turning the miter gage to  $54\frac{3}{4}$  degrees and tilting the saw blade to 30 degrees. The drawings shown on page 4 are full sized sections of the frame.





4



SECTION OF FRAME

3

ROUND CORNER

GLASS

PICTURE AND BACKING

GLASS

SECTION OF FRAME

2

PICTURE AND BACKING

4

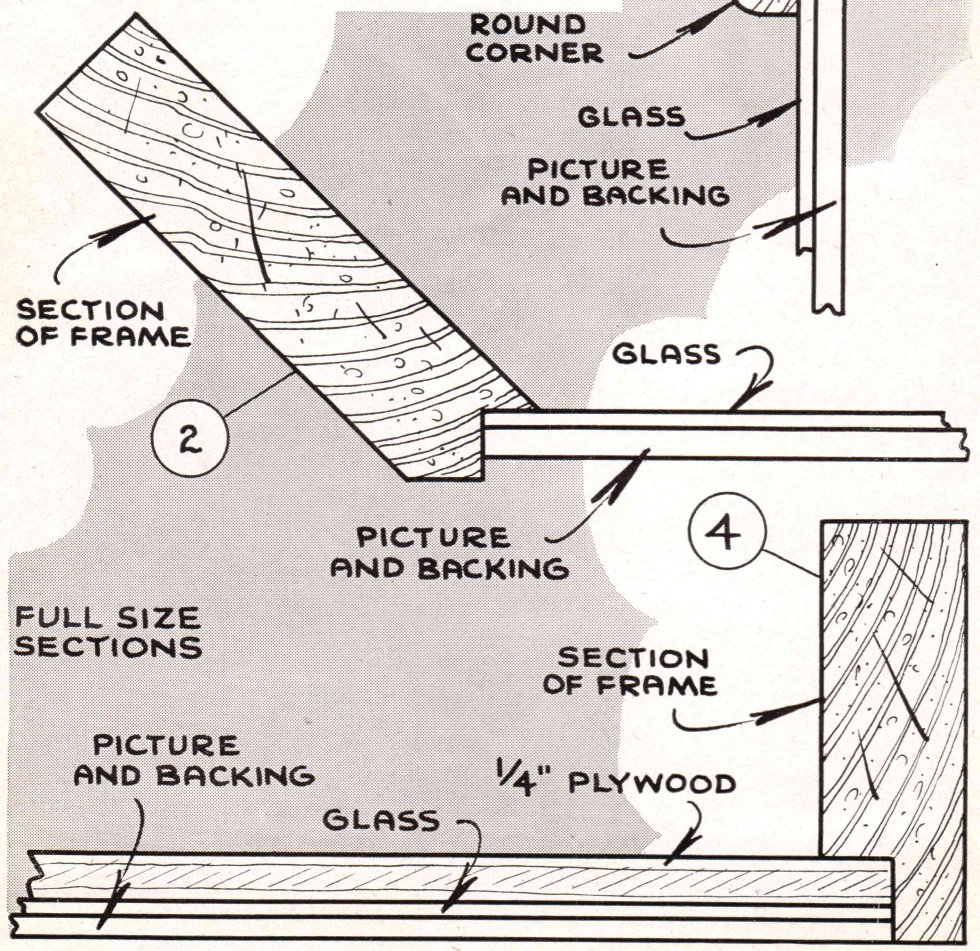
SECTION OF FRAME

FULL SIZE SECTIONS

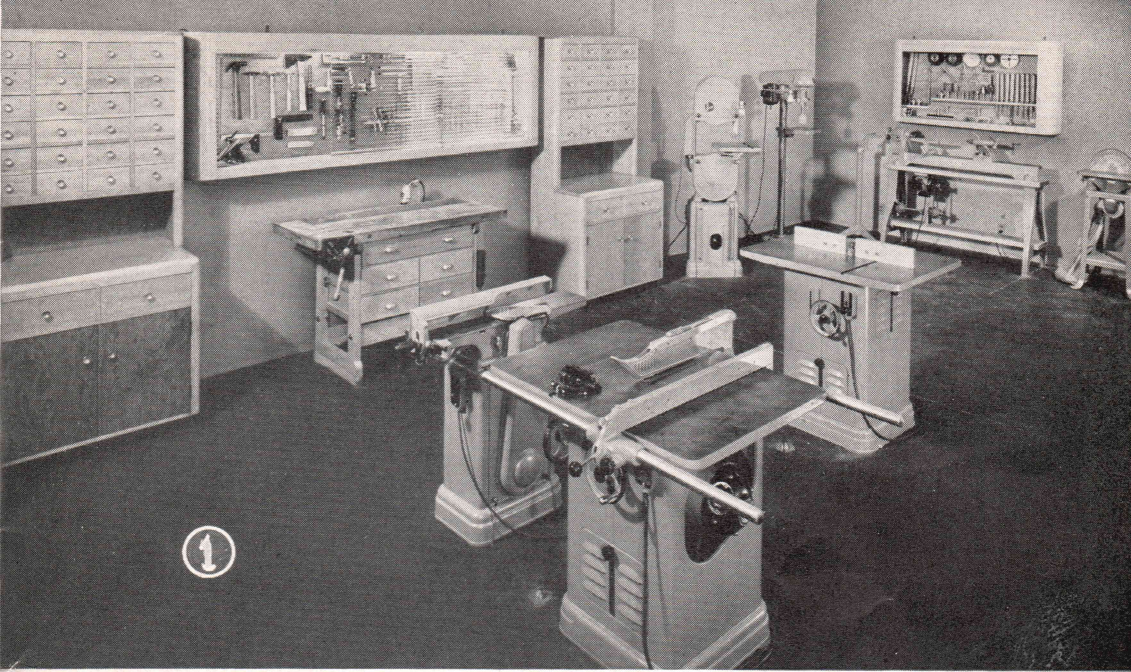
PICTURE AND BACKING

GLASS

1/4" PLYWOOD

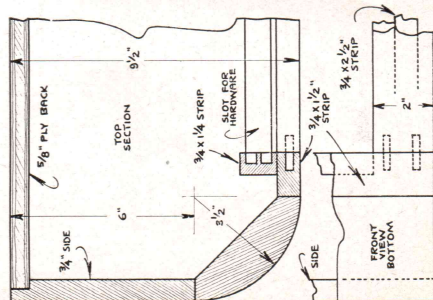
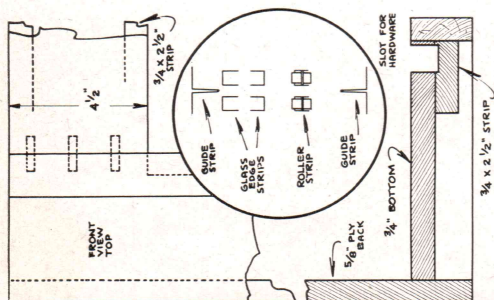
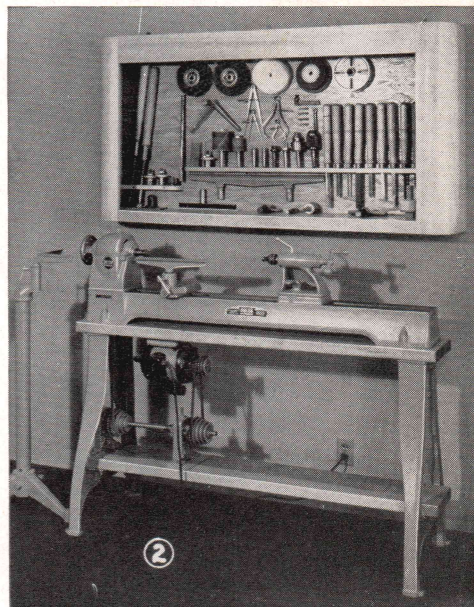




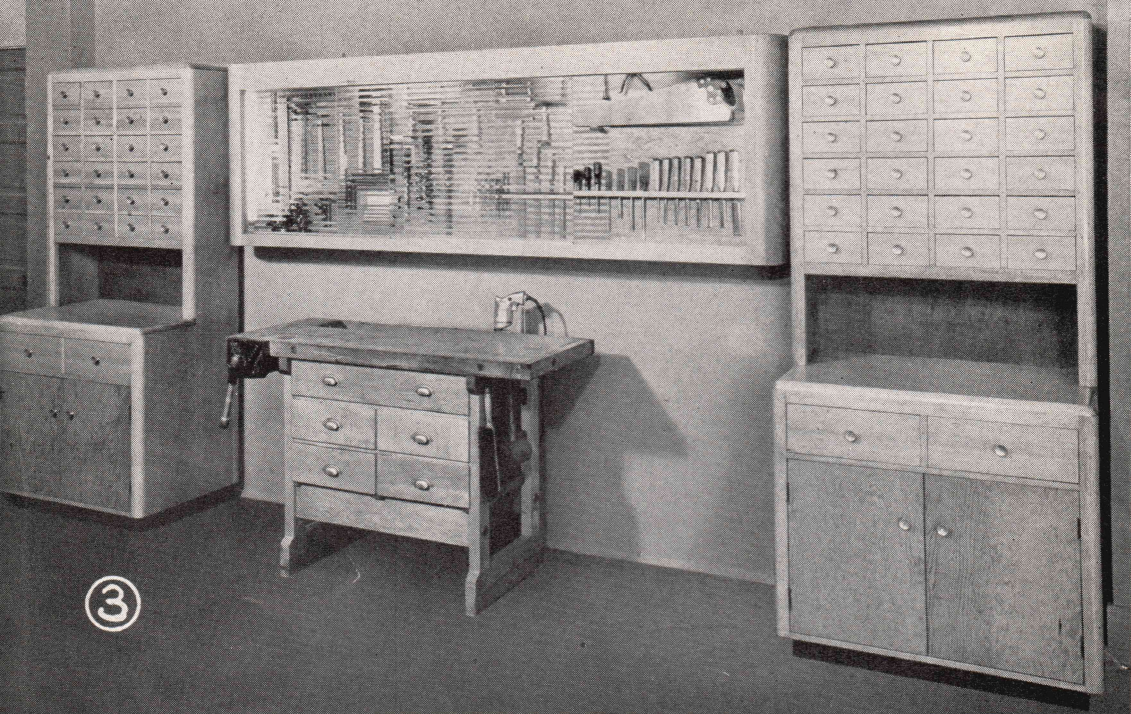


# TOOL PANELS

☆ THE tool panels shown in photographs 1 and 2 are detailed in the drawing below. The long panel shown over the workbench has sliding doors and fluorescent lights inside the ends and across the top. The entire tool panel was built from white pine, because it was easily available and light in weight. The length of these panels is optional, and should be fitted to your own particular needs. The finish can be either natural, as shown in the photograph, or enameled any color to suit your layout.

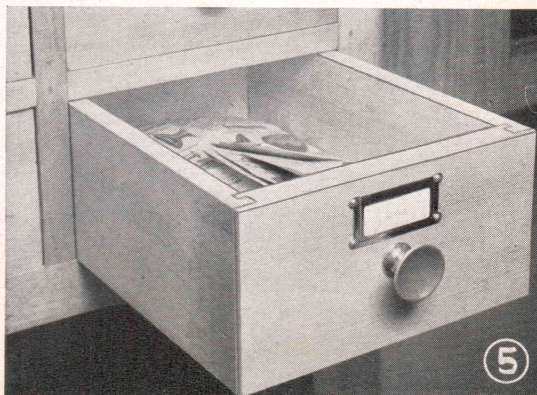




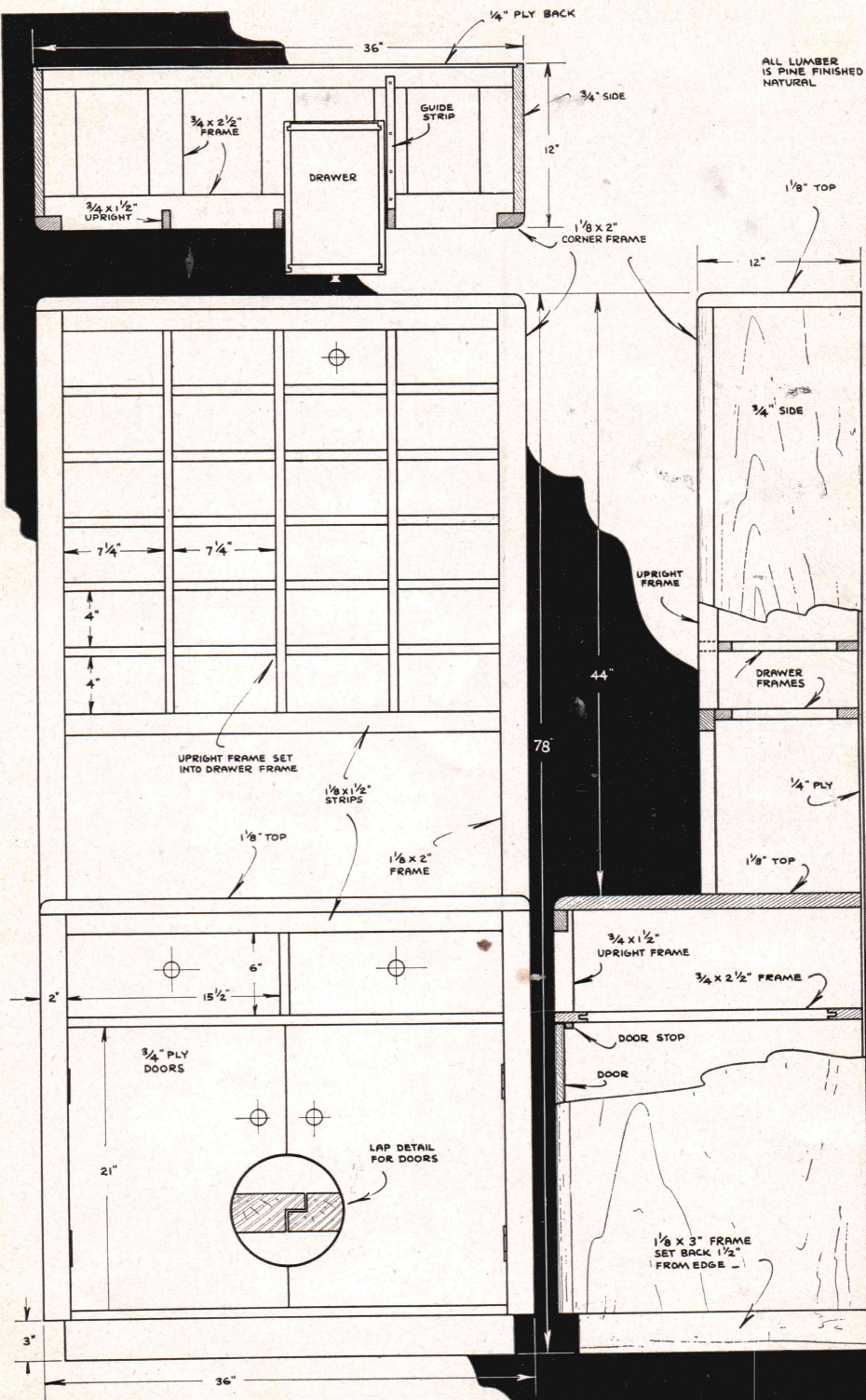


## TOOL CABINETS

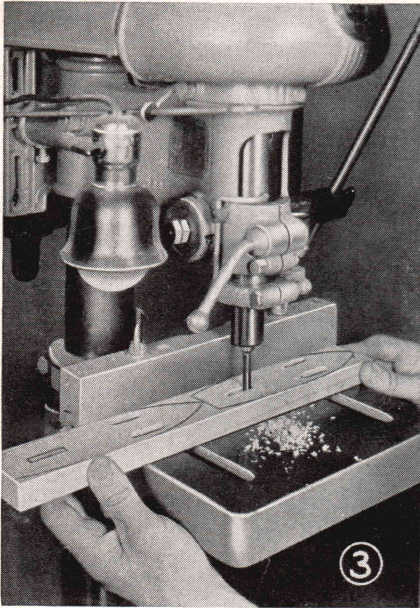
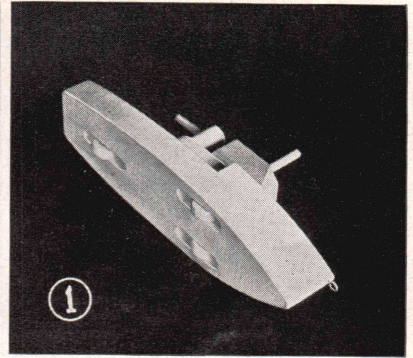
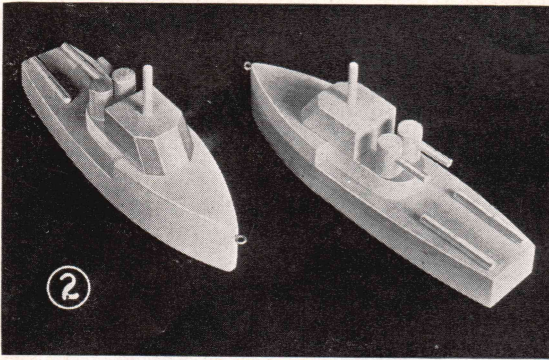
☆ THE CABINETS shown in the photographs on this page are matching pieces for the tool panels discussed before. The cabinets are also made from white pine solid lumber, with the exception of the lower doors which were  $\frac{3}{4}$ " plywood. The drawings are self-explanatory. The construction is, for the most part, nailed together with finishing nails which are countersunk and puttied over. The drawer construction is shown in the top view of the drawing, also in photograph No. 5 below. Small plates may be added, as shown in the photograph, to hold index cards.





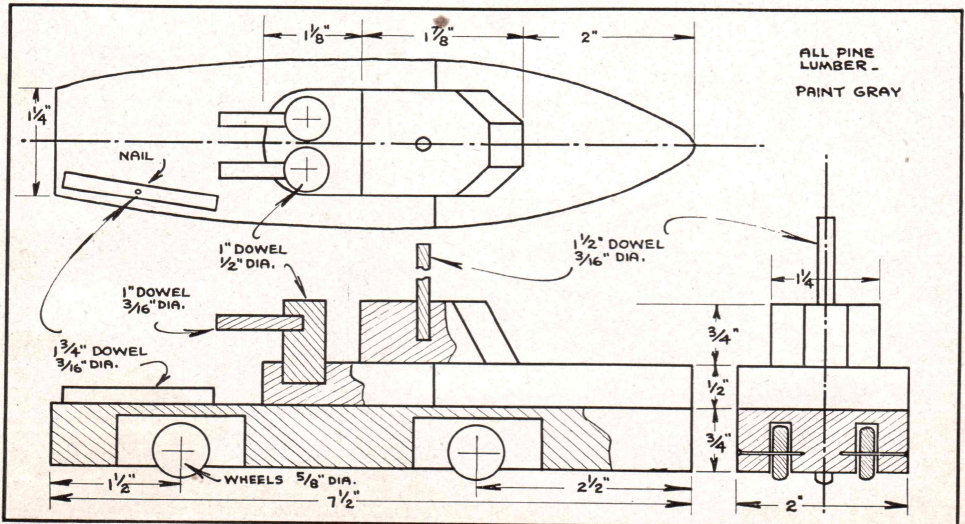




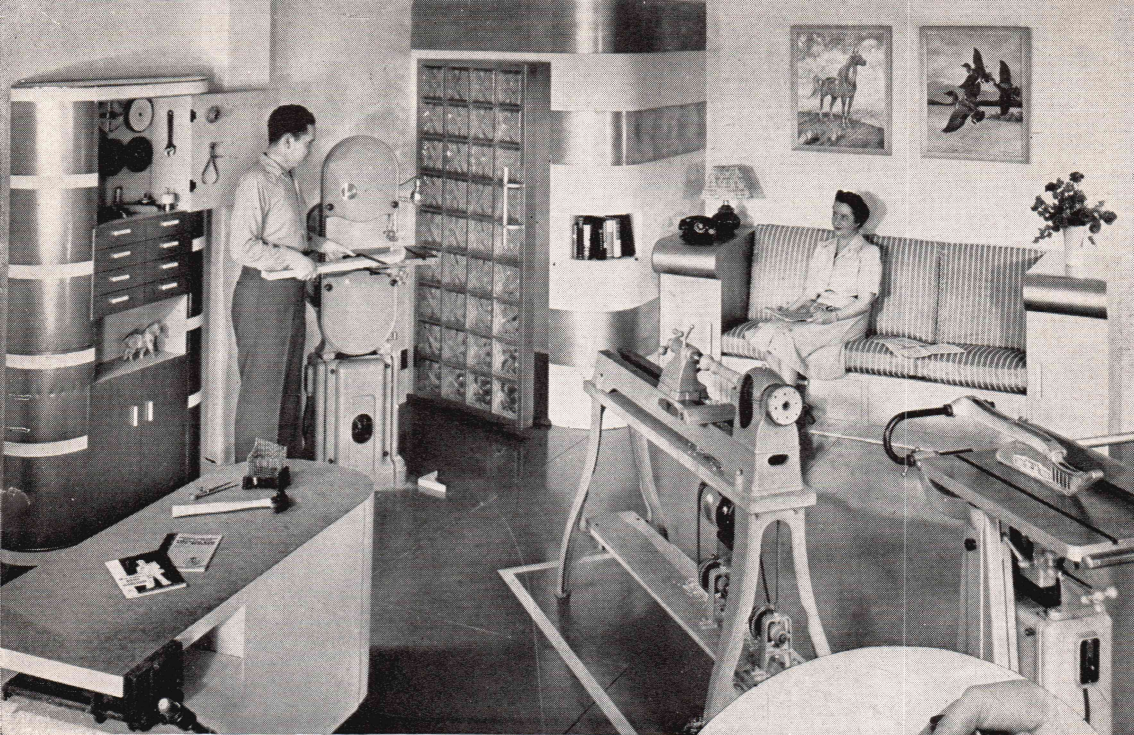


# TOY P. T. BOAT

☆ YOU can build the toy PT boat, shown in the photographs above, in one hour from scrap lumber. Simply lay out the pattern for all the parts from the drawing below, and band saw it to shape. Nail the deck parts together and sand the edges on the disk sander. The wheels are turned on the lathe and nailed into the spaces routed out of the bottom block for that purpose.

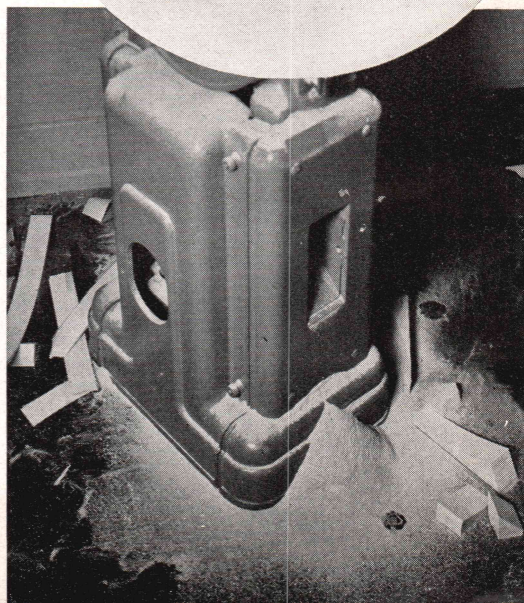




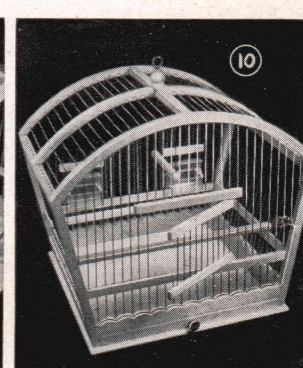
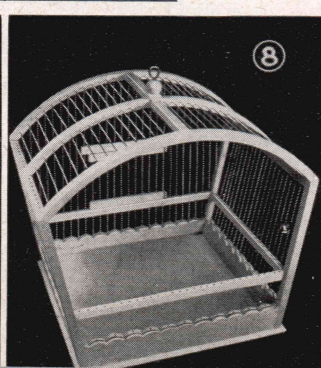
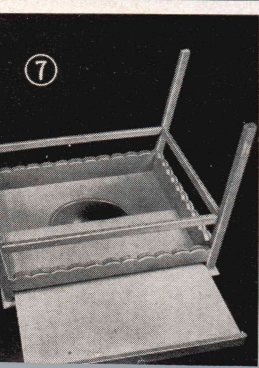
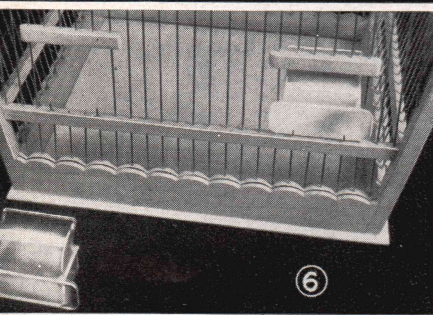
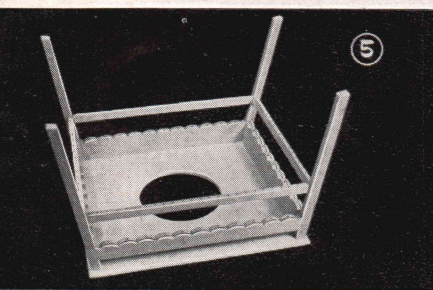
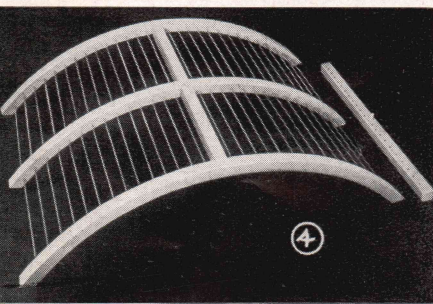
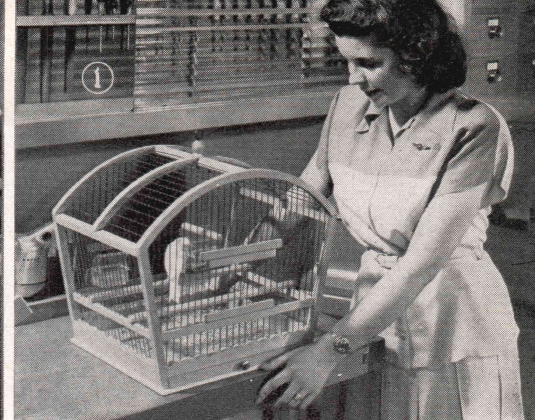
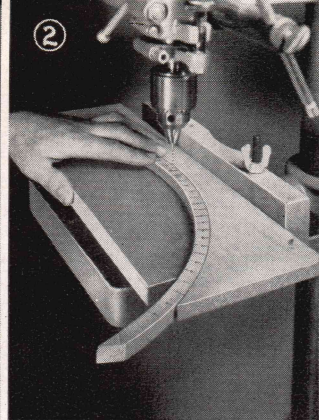
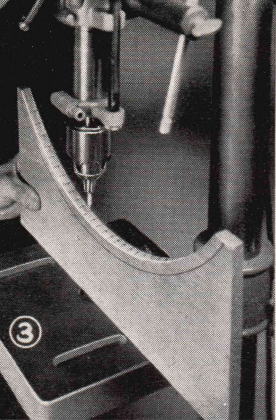


## FIRE PREVENTION IN THE HOME WORKSHOP

☆ THE best rule for fire prevention in the home workshop is a clean shop. The shop shown above is certainly not a fire hazard. It takes but a few minutes each day or at the end of any working period to clean up scrap wood and sawdust such as collects around the base of the machines, as shown in the photograph below. It is always a good idea, however, to have on hand a small fire extinguisher. It is good insurance against any emergency. The vaporizing liquid extinguisher is one of the most familiar types. The most common sizes contain a quart of liquid. When the liquid comes in contact with heat it turns into a heavy vapor, which blankets and smothers fire. It is a non-condenser of electricity.





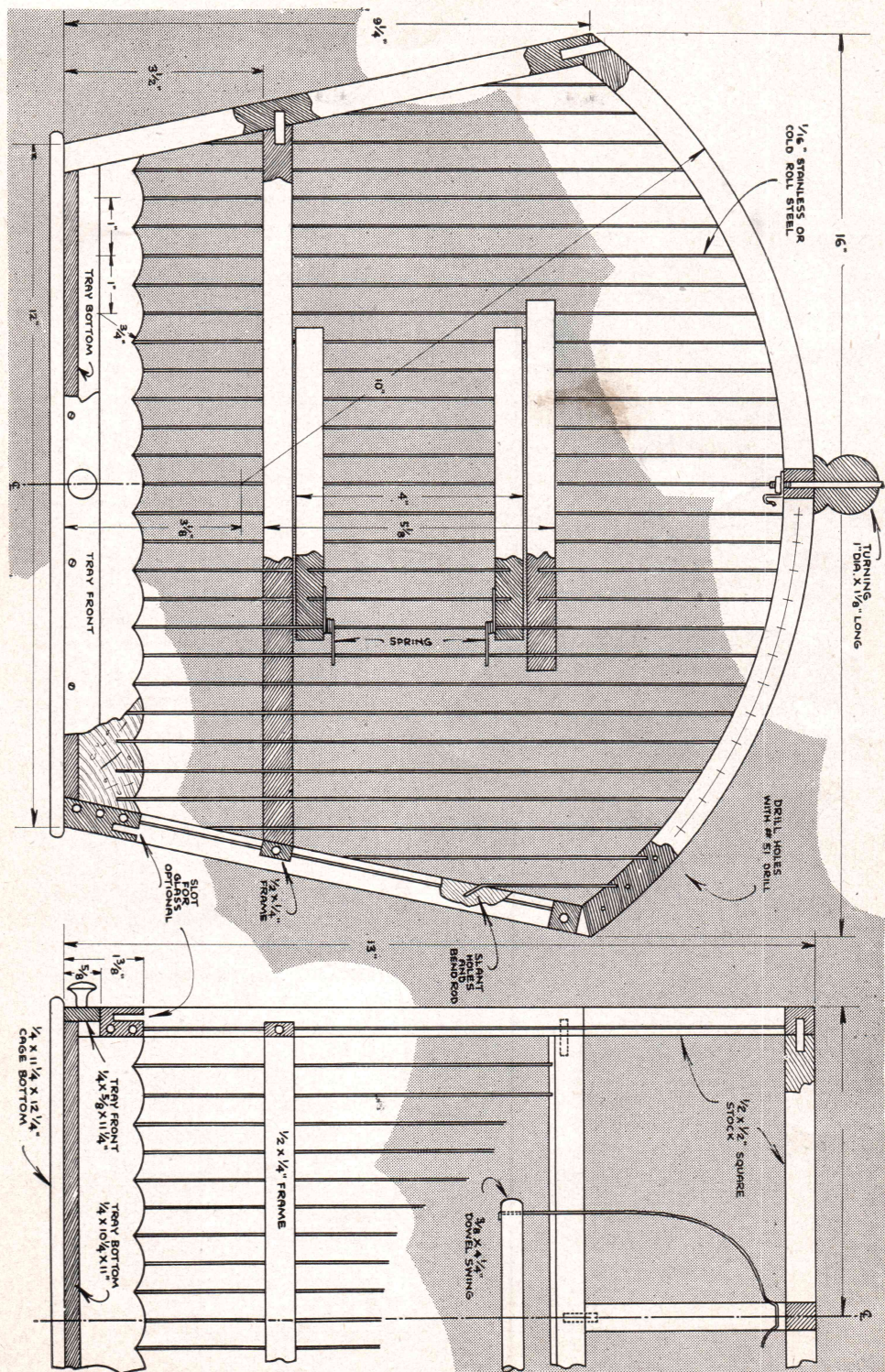


# Build This CAGE for your CANARY

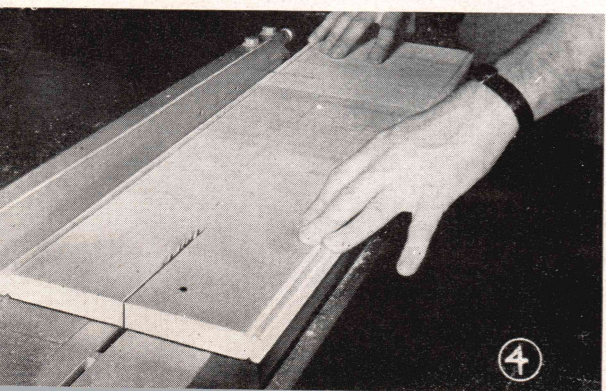
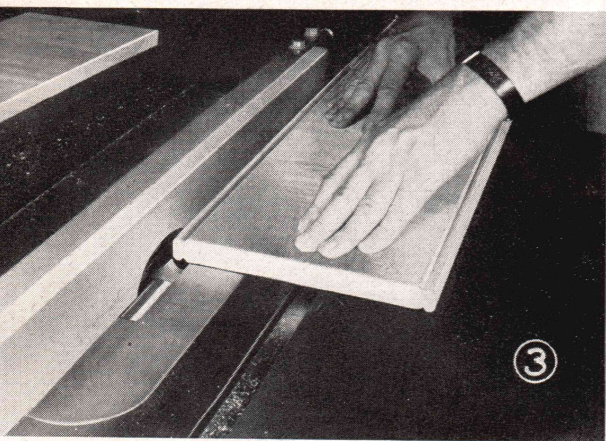
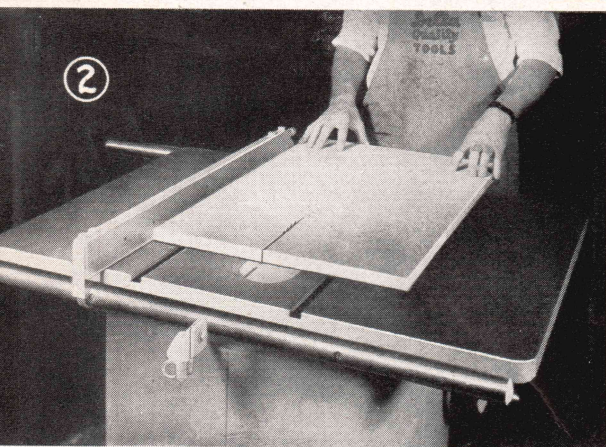
☆ YOU can make this attractive bird cage in your own workshop and have something a little different than the usual run of cages. The wood used can be either cedar or some hardwood, such as birch or maple. The wire used is 1/16" stainless or cold rolled steel. This wire can usually be purchased at your local hardware store.

The cage is assembled as shown in the photographs on this page. Photograph No. 4 shows the assembly of the top with the wires in place. The bottom frame work is assembled as shown in photographs No. 5 and No. 7. The top is then fastened in place and the wires inserted in the sides as shown in photograph No. 9. The new-style plastic cups shown in photograph No. 6 fit into the opening left for them, and are retained by the two projecting ends of wire, as shown in the photograph. The ends of the door frame are notched to fit over the last wire, and the door is held closed by a wire spring, as shown in the drawing.









# *Make Your Own* **CLOTHES PINS**

☆ NOW you can make your own clothes pins. You can make them in quantity by following this easy method. Each step is described and shown in detail in the photographs. The full size drawing of the finished clothes pin is shown on the following page. They should be approximately  $\frac{1}{2}$ " thick. The wood used should be a hardwood such as birch.

The first step is to glue up wide boards to form the strips necessary in making the clothes pins.  $\frac{3}{4}$ " stock is used, and this should be glued to form strips at least 36" wide. The strips are then sawed into pieces of 8" wide, as shown in photograph No. 2. The grain in this case runs across the 8" length. When you have several strips to work on, the next step is to mount a set of No. 261-K cutter blades in the moulding head attachment for the circular saw. The notches that form the head of the clothes pin are then cut with this moulding head. An auxiliary wood fence is mounted on the regular circular saw fence, so that the moulding will be cut close to the edge of the wood. The V-shaped groove is cut on each side of the ends, as shown in the photograph, and then the outside corners are removed with one edge only of the same cutter. This operation is shown in photograph No. 3.

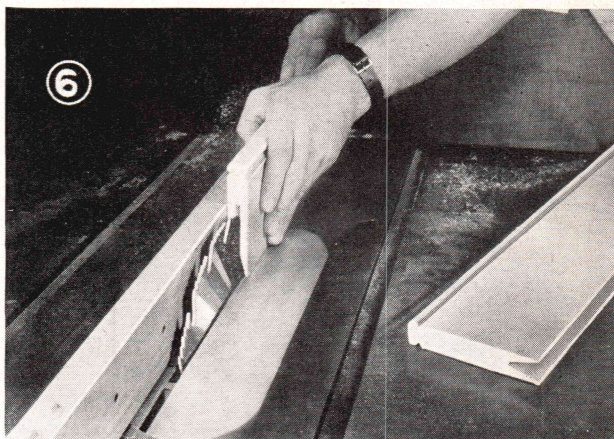
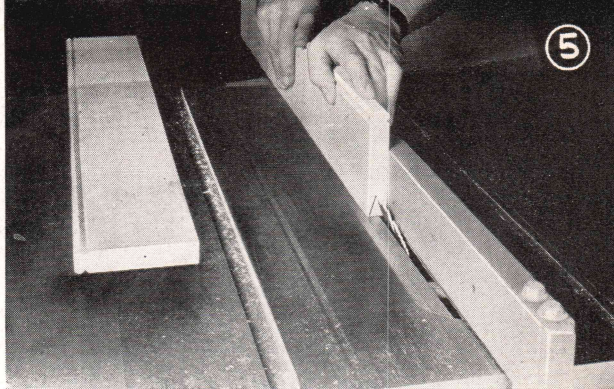
The next step is to rip the stock in half, shown in photograph



No. 4. This forms two strips with the head of the clothes pin cut into each part. The auxiliary wood fence is then removed and the saw blade is tilted to 15°. The cuts are then made to form the V in the open end of the clothes pin, one cut being made with each side of the stock against the fence, see photo No. 5.

The next step is to cut the slot in the clothes pin. A hollow ground blade should be used. This blade makes a cut  $\frac{1}{8}$ " wide. In order to widen this cut the blade should be set slightly off center and one pass made with each side of the strip against the fence. The finished slot should be about  $\frac{3}{16}$ " wide.

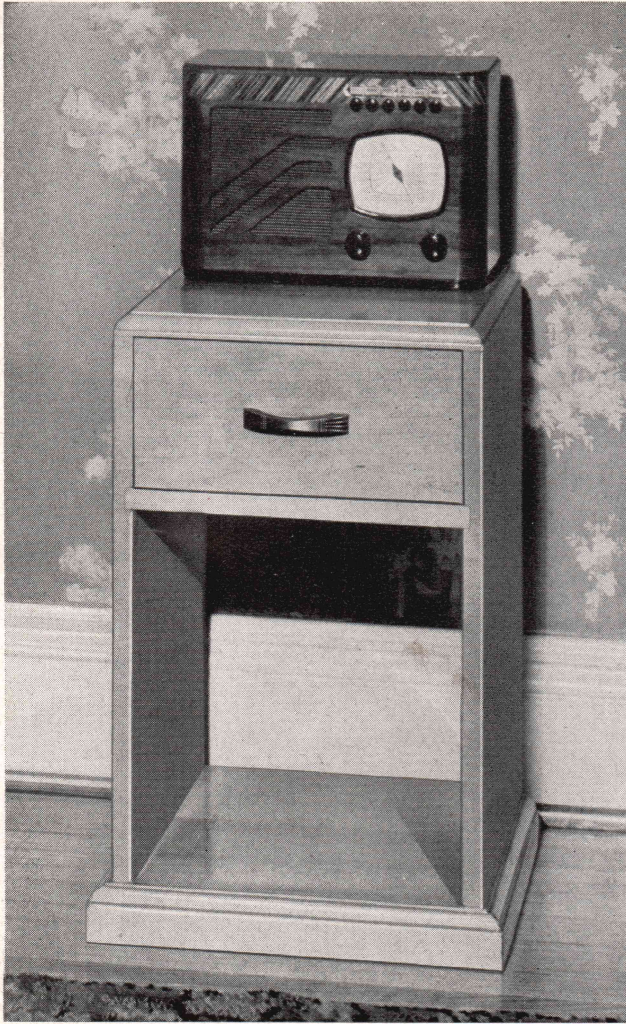
You are now ready for slicing the strips into individual clothes pins. Clamp a block of wood to the fence, as shown in photograph No. 7, as a spacer to keep the work away from the fence while it is being cut. Now, adjust the fence so that each clothes pin will be  $\frac{1}{2}$ " thick. With the strips held against the miter gage, proceed to slice into individual clothes pins. This cut also should be made with a hollow ground blade, which makes a smooth cut and requires no planing.



**FULL SIZE**







# Maple BEDROOM SET



AN attractive modern bedroom set is a project of lasting usefulness that you will be proud to build and to own.



The third piece of this set is the night stand shown on this page. The stock used is entirely solid maple, with the exception of the drawer bottom, which is  $\frac{1}{4}$ " plywood. The sides, frames, drawer fronts, top and the base are  $\frac{3}{4}$ " stock. The sides are 14" wide by 22" long. The sides are rabbeted into the top, in the same manner as the other pieces, with a  $\frac{3}{8}$ " line front rabbet. The drawer frame is also rabbeted into the sides, as shown in the drawing on the next page. This also is a blind front joint. The top edge of the baseboard and the sides of the front of the top have a moulding cut with the D-103 moulding cutter on the shaper.

## No. 3 . . . . NIGHT STAND

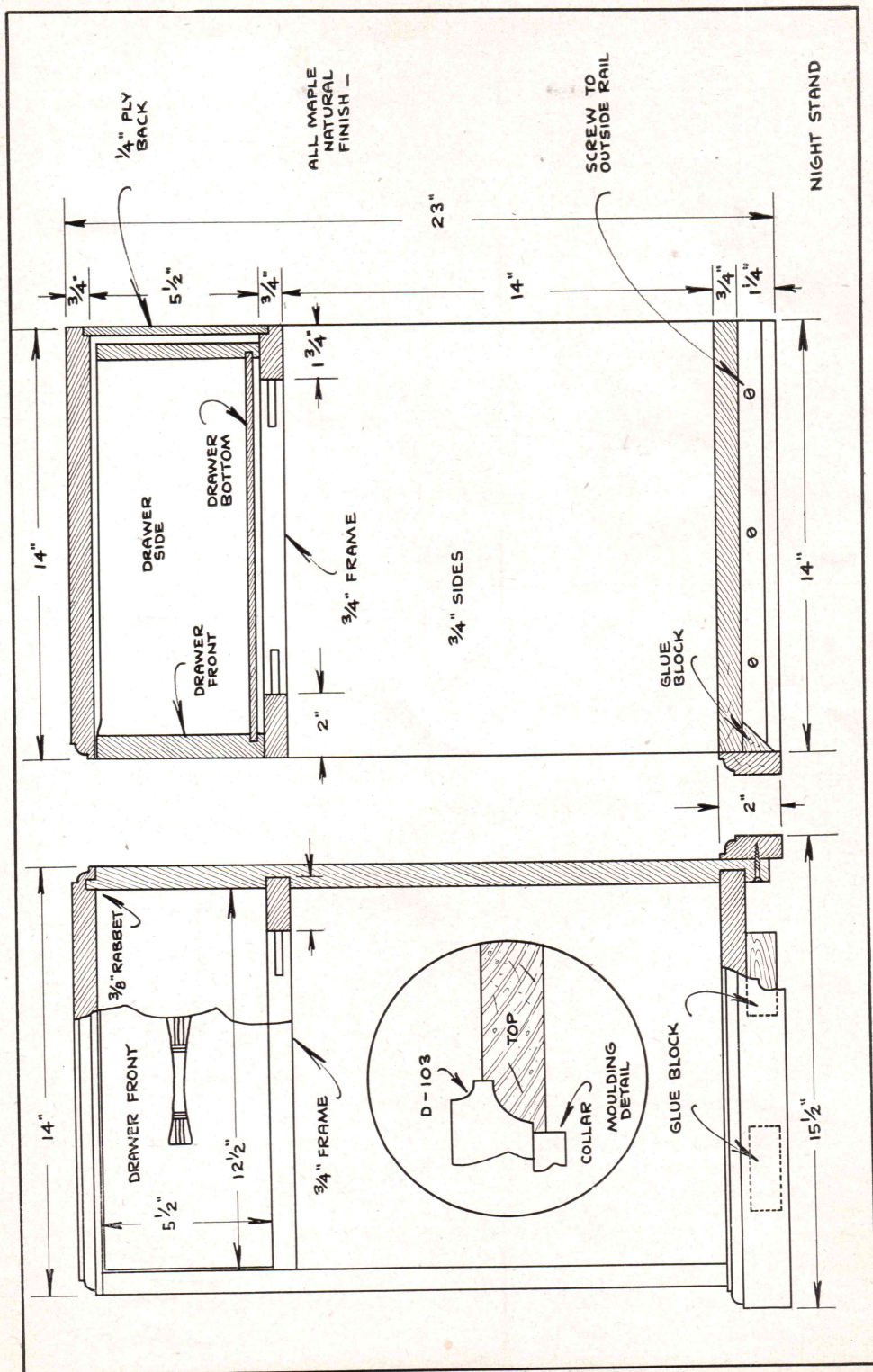
☆ THIS is the third piece of a set of bedroom furniture. The wood used in this set is solid maple with a natural blond finish.

The base is screwed on from the inside of the sides, as shown in the drawing. Glue blocks are used to hold the front base strip in place (see drawing).

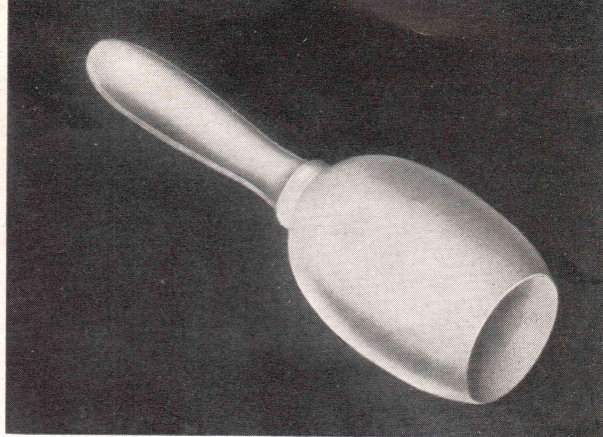
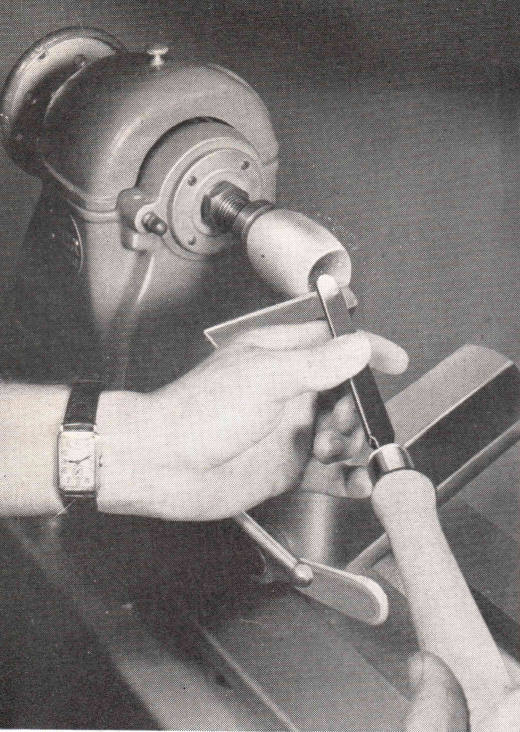
The drawer handle may be purchased from your local hardware dealer in a burnished metal or plastic. The handles should, of course, match in all three pieces of this set.

The finish is natural maple. Sand the whole thing carefully with fine sandpaper. Apply a coat of sealer, and rub down with fine steel wool or a rubbing compound. Clean thoroughly. Apply a coat of flat varnish.







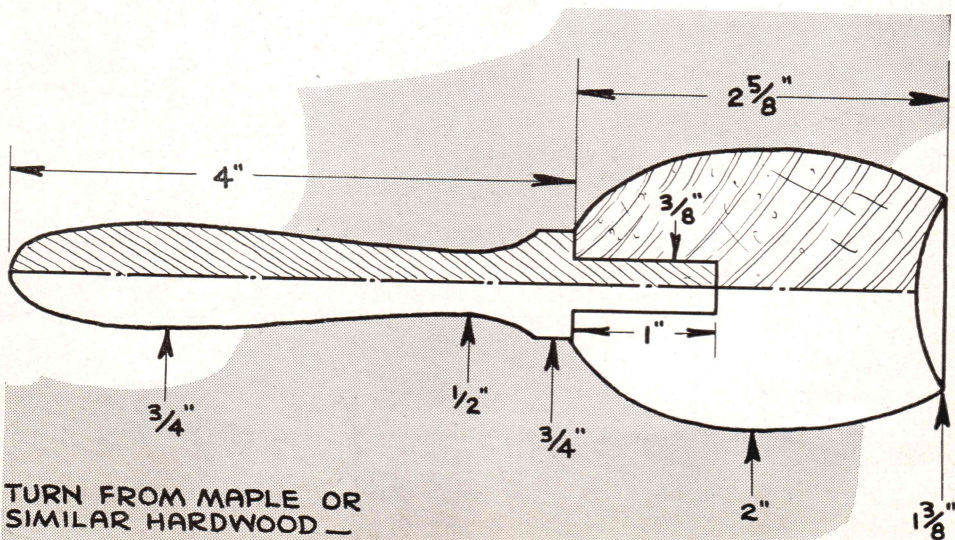


☆ ☆ ☆

The photograph at the left shows the ball part of the darning being turned on the lathe. The block of wood is mounted on the screw center and turned to shape. The photo shows the final step of hollowing out the end. The photograph above shows the completed project.

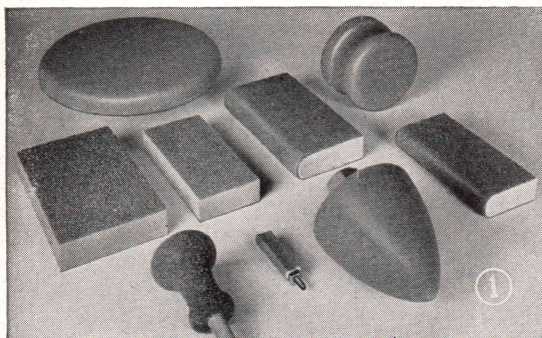
# TURN THIS SOCK DARNER ON YOUR LATHE

☆ THE handy sock darning shown here can be turned out in a few minutes time in your workshop. The wood used should be maple or a similar hardwood. Turn the handle to the shape shown in the drawing, and glue the two pieces together. When completed, the project should be turned to a very smooth finish and then polished. A coat of wax is then added.





# Make Your Own SANDING SHAPES



## NOW — A QUICK EASY WAY TO MAKE YOUR OWN ABRASIVE SHAPES

☆ WHEN you're working with irregular shapes, where flat sand-paper can't get in, to give you the desired coverage, that's the time to use the Deltacraft Sanding Kit. Photograph 1 above shows a few of the many shapes that you can make and use in a few minutes time. Photograph 3 shows how quickly and easily the job may be done. Only \$1.00. Send for yours today.

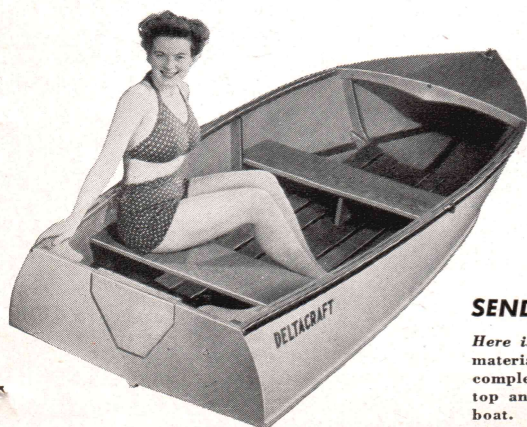
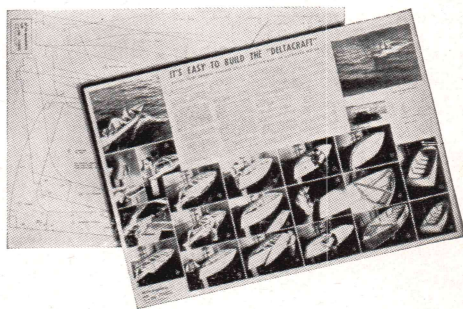
Catalog No. 4017

**ONLY \$1.00**



## IT'S EASY TO BUILD THE "DELTACRAFT"

Here is the plan that you homcrafters have been asking for. An eleven foot general purpose plywood boat that is really easy to build.



☆ It can be used with either oars or outboard motor. The completed boat weighs 124 lbs., with  $\frac{3}{4}$ " solid oak frames, seats, etc. Plywood is  $\frac{3}{16}$ " waterproof birch.

**SEND TODAY FOR COMPLETE PLANS \$1.00**

Here is what we give you: Two large sheets containing, bill of material, photographs showing each step in the construction, complete instructions on how to proceed, full size rib drawings, top and side view, everything you need to build this beautiful boat.



# FLYING CHIPS

## Help for the Younger Boys

**Michigan Center, Michigan:** I am looking for blueprints of about fifty small projects which can be built by boys from 10 to 16 years of age. I am a director of a boys' club, along with my teaching studies, and am having difficulty finding plans of projects which are simple enough for boys of average skill. Any help or suggestion you can give me will be appreciated.

F. W. T.

A pamphlet listing all the books and plan sheets we publish is available. Write for your copy today.

## Weather Vanes

**Audubon, New Jersey:** I am seeking plans for making weather vanes with small moving figures portraying a farmer chasing a goat around a silo, a woman washing clothes, merry-go-round, etc. These figures move by wires connected to the propeller, and when the wind blows the figures are in motion. Do you have such plans?

W. R. H.

Thanks for the suggestion. We are making a note of these as future projects for the Deltagram.

## Air Minded Craftsman

**East Point, Georgia:** When materials are again available, I plan on building a nice workshop in my backyard and equip it with Delta Power Tools.

I am an airplane mechanic here at the municipal airport, and plan to build this shop with the idea of completely rebuilding and overhauling small aircraft engines such as the "Cub." I plan to build the shop out of cinder or cement blocks and equip it with a Delta lathe, drill press and all the other necessary power tools which you manufacture.

If you have any plans on building a shop of this kind, I certainly would like to have a set—also a floor plan for the arrangement of the machines and hand tools. If you do not have plans like these, please advise me of anyone you know who does.

W. A. W.

We will have a book out soon containing a number of floor plans. It will, of course, be announced in the Deltagram.

## Finishing Problem

**Hampton, Virginia:** I have all your books on wood-working and finishing. After studying your books thoroughly, I still have one problem that I cannot solve.

In your book, "Practical Finishing Methods," it mentions that to prevent raising of the wood grain when using a water stain, the wood should be dampened and resanded before staining. I have followed these instructions carefully, but despite that at sometime during the finishing process the grain would raise. I have experimented with different applications but still the results were unsatisfactory. The woods I have been using are yellow pine and fir plywood. Can you account for the failure in the finishing process? If so, inform me how it can be corrected.

S. S.

We suggest that you use an oil stain instead of the water stain.

## Selling Problem

**Newton, Wisconsin:** I recently made one of the pueblo birdhouses according to your plans (Page 104, March, 1943 Deltagram). I received many compliments on it and also several orders for them. I would like a suggestion as to the selling price on such a birdhouse.

G. L. F.

Our book, "Making Money With Delta Tools," will answer these questions and many others like what to make, how to make it, and where to sell it. The price of this book is only 10 cents. Order your copy today.

## You Can Get Your Moneys Worth

**Lenior, North Carolina:** Have received my ten dollars worth of books from you for only three dollars. I really am delighted with them, one and all. Your books are worth more than what you ask for them. Would like to have poems pertaining to woodworking such as, "Shavings," which was published in the November-December, 1944 issue of the Deltagram.

G. S.

We will print more poems from time to time in the Deltagram. We will be happy to publish any our readers might have pertaining to workshops or wood-working.

## Booklet on Shaper Cutters

**Shreveport, Louisiana:** I have one of your No. D-110 drawer joint shaper cutters, but darned if I can figure out how to use it. Would appreciate any help you can give me. I am wondering if others wouldn't be as interested as I would in a booklet describing all the various shaper cutters and how each can be used. The No. D-110 and the D-131 look very much alike and I have tried to use the D-110 as a glue joint, but so far have been unsuccessful.

W. B. N.

Not a bad idea. Look in a future issue of the Deltagram. Thank you.

## Thanks, Delta

**Muskegon Heights, Michigan:** I have been waiting for a long time for a chance to buy Delta Power Tools. I have a small home workshop where I make toys, etc. I have taken the Deltagram for quite sometime. I have a complete Delta library, including the Farm Workshop Book, even though I am not a farmer. It is worth many many times its cost, and so are the splendid plans put out by Delta. The only complaint is, why can't the Deltagram come twelve times a year?

I have spent many happy evenings making Delta novelties. My local hardware dealer is nice to deal with, and is a big booster of Delta products.

Delta has done a great deal to help the many home-crafters around the country, and I'm one who would like to say thanks! and thanks again for your help from a swell organization like yours.

F. A. A.

## Wants Plans for Riding Jeep

**Newark, New Jersey:** Could you let me know if I can obtain plans of the enlarged jeep by Mr. Benedict which appeared in the July-August issue of the Deltagram? I subscribe to several woodcraft magazines, but yours tops them all. I have spent many an enjoyable evening, also with profit, from your many and various items appearing in the Deltagram. My friend and I made woodworking a hobby, but now we are expanding into a very profitable business. Keep up the good work and we hope you start making machinery for civilian use soon.

J. A. W.

## Poker Table Plans

**Lansing, Michigan:** I am a subscriber to Deltagram and an owner of several Delta woodworking machines.

Can you tell me whether or not Delta will build an 8' or 10' table saw with a tilt arbor—rather than the tilt table?

Also would be glad if you would advise me where I can get plans or specifications for building a portable poker table—something similar to the 8 place fold-away card table which is on the market.

A. S.

This project will appear in an early issue of the Deltagram.

We want to thank all of our readers for the nice letters they have been sending us. We will appreciate any comments you have on our tools and the articles in the Deltagram.

—THE EDITORS.



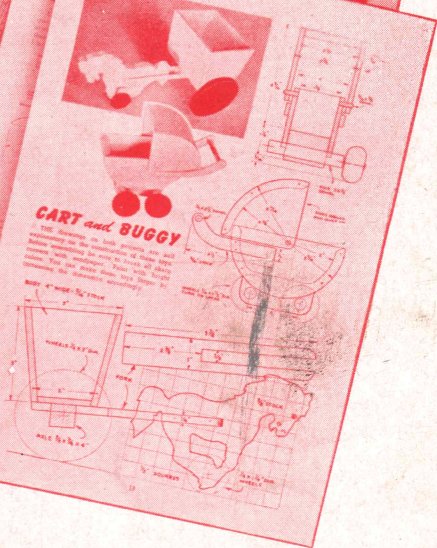
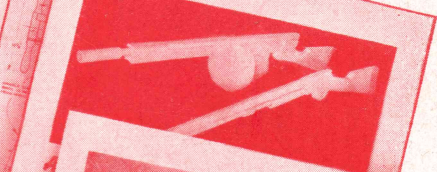
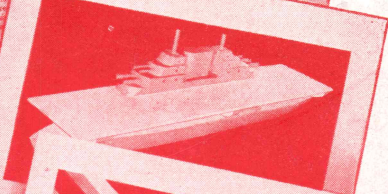
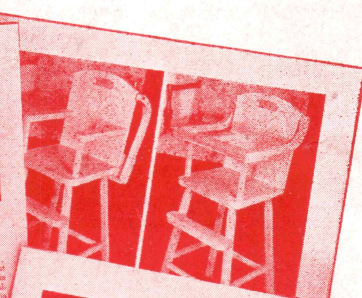
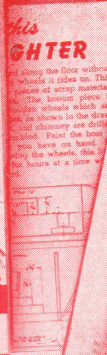
# DESIGNS

*These are full size drawings which can be easily traced directly on the material to be cut. Paint the material with a flat coat of paint before drawing the design.*





# MAKE YOUR OWN TOYS



- FOR CHRISTMAS
- FOR EASTER
- FOR ALL THE YEAR

COMPLETE PLANS and instructions for making many of the finest wooden toys you have ever seen. There are forty (40) pages of toys for you to build. To list a few, there are: Cut-Out Soldiers, Dolls, Scooter, Dump Truck, Toy Plane, Garden Tools, Boats, Toy Car Ferry, Car and Trailer, Road Roller, Toy Elephant, How to cut Jigsaw Puzzles, and many other plans and designs.

This is another "Deltacraft" publication. The word "Deltacraft" means a guarantee that the designs are of the highest quality, complete with photographs, diagrams, plans, and instructions to give you every aid possible in building these projects.

*The finest book of its kind.*

**Only 25¢ Postpaid**

**THE DELTA MFG. CO.**

**600 E. VIENNA AVENUE  
MILWAUKEE 1, WISCONSIN**

Printed in the U. S. of A.